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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/724,109	12/01/2003	Arkady Glukhovsky	P-5453-US	8741
49443	7590	01/23/2006	EXAMINER	
PEARL COHEN ZEDEK, LLP 10 ROCKEFELLER PLAZA SUITE 1001 NEW YORK, NY 10020			SMITH, PHILIP ROBERT	
			ART UNIT	PAPER NUMBER
			3739	

DATE MAILED: 01/23/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

10/724,109

Applicant(s)

GLUKHOVSKY ET AL.

Examiner

Philip R. Smith

Art Unit

3739

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 28 November 2005.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-33, 35-40 and 44-47 is/are pending in the application.
- 4a) Of the above claim(s) 1-33 is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 35-40 and 44-47 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
 - ☐ Certified copies of the priority documents have been received in Application No. _____.
 - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- ☐ Notice of References Cited (PTO-892)
- ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- ☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____
- ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____
- ☐ Notice of Informal Patent Application (PTO-152)
- ☐ Other: _____

DETAILED ACTION

Specification

- [01] The title has been amended as follows to overcome the objection in the Office action of 3/24/2005: "Method and apparatus for transmitting non-image information via an image sensor in an in vivo imaging system."

Claim Rejections - 35 U.S.C. 112, Paragraph Two

- [02] The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.
- [03] Claims 41-43, which were rejected in the Office action of 6/28/2005 for being indefinite, have been cancelled, rendering moot the previous rejection.
- [04] Claims 37, 40 & 46-47 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.
- [05] Claim 47 recites an "imager" where "image sensor" is clearly intended. There is insufficient antecedent basis for this limitation in the claim.
- [06] Claim 45 recites that "non-image sensor information" is "convert[ed]" to "the output of an illumination source." Claim 46 recites the "display" of "non-image sensor information." This is indefinite because the "non-image sensor information" has been converted to "the output of an illumination source." By its nature, non-image sensor information must have optical characteristics in order to be imaged; thus the conversion recited by claim 45 is a prerequisite of display. Claim 46 will be

interpreted "...a display to display ~~non-image sensor information~~ the output of the illumination source."

[07] Similarly, claim 47 recites the "process[ing] of the non-image sensor information imaged by imager." As noted above, conversion of "non-image sensor information" is a prerequisite if imaging. Claim 47 will be interpreted "a processor to process ~~the non-image sensor information~~ the output of the illumination source imaged by the [image sensor]."

[08] Claim 44 recites that "non-image sensor information" is "convert[ed]" to "the output of an illumination source." Claim 37 recites that "non-image sensor information" is "direct[ed]" via an "optical guide" to an "image sensor." Claim 37 will be interpreted "...directing the ~~non-image sensor information~~ the output of the illumination source to a specified location on the image sensor via an optical guide."

[09] Claim 40 recites the "display" of "non-image sensor information." This is indefinite because the "non-image sensor information" has been converted to "the output of an illumination source." Claim 40 will be interpreted "...displaying the interpreted ~~non-image sensor information~~ the output of the illumination source."

Claim Rejections - 35 USC § 102

[10] The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

[11] The independent claim 34 has been cancelled and replaced by new independent

Art Unit: 3739

claims 44 & 45. The Meron and Takayama references used in the Office action of 6/28/2005 have been overcome as stipulated in the Examiner Interview of 9/15/2005.

[12] Claims 35-39 & 44-45 are rejected under 35 U.S.C. 102(b) as being anticipated by Iddan et al (6,428,469).

[13] With regard to claim 45: Iddan discloses an in vivo imaging system comprising a non-image sensor to obtain non-image information ("unit 14" comprising "axial motion detector 22," "switch driver 20" and "switch 18," 3/1-11) and a container (autonomous capsule 10," 2/50) enclosing:

[13a] an illumination source ("light emitter 26," 3/12-19);

[13b] an illumination driver circuit ("power distributor 16," 3/1-11) to convert the non-image sensor information to output of the illumination source ("controls the supply to [the light emitter]," 3/11); and

[13c] an imager ("camera assembly 25," 3/12-19) to image at least the output of the illumination source.

[14] With regard to claim 44: Iddan thus establishes a method of transmitting in vivo non-image information, the method comprising:

[14a] obtaining non-image sensor information from a sensor (axial acceleration, 3/1-11);

[14b] converting the non-image sensor information to the output of an illumination source ("re-activate the imaging unit," 3/37-41), the illumination source

contained within a container;

[14c] relaying the output of the illumination source to an area on an image sensor (via the imaged object), the image sensor contained within the container; &

[14d] transmitting the image sensor information to an external receiver (via "radio transmitter 27," 3/1-11).

[15] With regard to claim 35: The "radio transmitter 27" disclosed by Iddan is conventionally used for transmitting image data collected by the image sensor to an external device, where it is analyzed and displayed.

[16] With regard to claim 36: The non-image sensor information collection disclosed by Iddan may be obtained from the gastrointestinal tract.

[17] With regard to claim 37: Iddan shows a "window 40" which guides the output of the illumination source to a specified area on the image sensor.

[18] With regard to claim 38: The "power distributor 16" disclosed by Iddan is inherently capable of electrically connecting the illumination source ("26") to the non-image sensor ("14").

[19] With regard to claim 39: The non-image information obtained is interpreted by the "switch driver 20" composing "unit 14."

[20] With regard to claims 40 & 46: The inherent purpose of the "video capsule" (title) disclosed by Iddan is to display the in vivo images captured by the device.

[21] With regard to claim 47: The "radio transmitter 27" disclosed by Iddan process the

output of the illumination source imaged by the image sensor.

Response to Arguments

- [22] Applicant's arguments with respect to the claims have been considered but are moot in view of the new ground(s) of rejection.

Conclusion

- [23] Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action.* Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).
- [24] A shortened statutory period for reply to this final action is set to expire **THREE MONTHS** from the mailing date of this action. In the event a first reply is filed within **TWO MONTHS** of the mailing date of this final action and the advisory action is not mailed until after the end of the **THREE-MONTH** shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than **SIX MONTHS** from the date of this final action.
- [25] Any inquiry concerning this communication or earlier communications from the examiner should be directed to Philip R. Smith whose telephone number is (571) 272 6087 and whose email address is philip.smith@uspto.gov. The examiner can

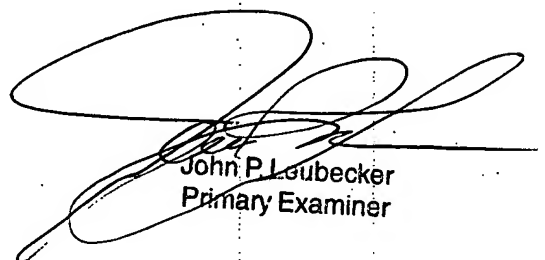
Art Unit: 3739

normally be reached between 9:00am and 5:00pm.

[26] If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Linda Dvorak can be reached on (571) 272 4764.

[27] Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

[28] prs



John P. Leubecker
Primary Examiner